

Economical Hybrid Anti-Icing System

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INNOVATION

An Ice Protection System suitable for roughness-sensitive airfoils that would typically be protected by anti-icing systems requiring greater energy

ACCOMPLISHMENTS

- ◆ Developed new methodology for lifting surface ice protection that combines electro-thermal anti-icing with Electro-Mechanical Expulsion Deicing System (EMEDS) to maintain leading edges clear of ice
- ◆ Received FAA certification on May 23, 2001
- ◆ Constitutes the first “new” certified ice protection system in more than forty years

COMMERCIALIZATION

- ◆ In production for horizontal stabilizer on Raytheon Aircraft's new Premier I business jet
- ◆ More than 300 aircraft are on order and revenues are expected to be more than \$10M over the next several years
- ◆ Further applications are being investigated and use on other airplanes is expected



Hybrid Anti-Icing System Tested at NASA Icing Research Tunnel by Cox and Raytheon Engineers

GOVERNMENT/SCIENCE APPLICATIONS

- ◆ Helps satisfy the NASA goal of increasing aviation safety through the development of advanced ice protection system
- ◆ Useful on military aircraft of all sizes including advanced flight vehicles